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MPIC/TSSG/DED-1585-69

MENOPANDUM	TOR:	Director,	Hatlonal	Photographic	Interpretation	Conter
SUBJECT	2	Proposed	Contract	eith the]

- A. This memorandum requests approval for the commitment of funds for a contract. The specific request is stated in Paragraph 7.
- Trichromatic Microdensitometer (Micro-d). This instrument is operated by APSD/TSSS to determine: the relative quality of film; the film exposure; and the quality of the film processing. It is also used to distinguish very subtle tonal changes within an image to support photo interpretation. There are practical limitations, however, to the types of film which the Micro-d can be used with and to the type of scanning which it can accomplish. High resolution recording materials such as Diazo, very fine grained silver film, free radical materials, etc. and images smaller than a few millimeters cannot be adequately analyzed with the Micro-d without requiring an exorbitant amount of manual processing after the scanning. Modifications are, therefore, proposed to increase the sampling rate and improve the scan control of the Micro-d thereby reducing the present limitations of the machine.
- 3. The proposed task will eliminate these problems by first changing the mechanism that governs the sampling interval from a "mechanical" system to a "time" system. The contractor will provide and install a crystal controlled oscillator (the "clock") plus the associated circuitry required to subdivide the 60 Hz line frequency, which will be used to drive the sampling intervalometer to yield a sampling rate capable of 10 samples per micron. To eliminate the other problem mentioned, a digital scan controller is recommended. By adding decade switches, decade counters, and comparison logic, the Contractor proposes to modify the Micro-d so that the X stage movement is controlled by presetable decade switches. The operator will then be able to set any length of scan from 1 micron to 1 decimeter. The necessary designs and fabrications will be performed at the Contractor's facility and within 65 days of the start of the contract, the Contractor will install and check out the modifications at MPIC. Ho problems are anticipated since these same modifications have been successfully completed on a similar model Micro-d.

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1032T Microdensitemeter to perform the desire	smillerity with the d modifications without re both solicited and
proposal was chosen on the be	sis of cost. The esti-
ed cost of the task is Because of the done, no external coordination was deemed neces	mature of the work to sary. Internal coor-
ation between APSD/TSSG and DED/TSSG will conti gram.	
5. This task is one of two contracts current capabilities of the 1032T Trichromatic Mi	
-	prove the acanning stag
two contracts are proposed to run concurrently to of these contracts is Reither of t	. The total estimated be tasks will overlap.
AN ATTOM CONTRACTOR TO	AND THE PARTY CONTRACTOR
7. It is requested that the negotiation with a contract to conduct the program described at be approved.	
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